



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040267	ACI001-VC	2	1	Net 30	M304R3.750	304/316 Round Bar Ø3.750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE				3	7/18/2018	3		S090995	Stock	7/11/2018	\$ 265.00 / ft	0		\$795.00	Acier Ouellette Inc.
		4			MT-4140-S-0.500X3.500	AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC				6		6		S090996	Stock	7/11/2018	\$ 18.94 / ft	0		\$113.66	Acier Ouellette Inc.
										Total:		9								\$690.91	

Plex 7/11/2018 6:12 PM dart.Tollis.Andrew



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO000096401

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD
, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Customer N° CLI0001056
Date 2018/06/20
Delivery date 2018/07/11
Your order N° 040267
Processed by Eric Kaehlert
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days

Product Description	Weight	Qty	UM	PCS NB		Internal Use Only								
				CMD	EXP	B/O	IN	I	S	C	OUT			
1 ROUND SS 3/4 304 NS RSS-334 11272 1 X 3' ** CERTIFICATE ** AC17562-IH-2018-07-09 Heat : 274065	112.65	3.00	PL_\$CLB		31									
Total Weight (Lbs) : 112.65				NIR : R-109516-6										
Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.														
Prepared By : 	Verified By : 	Delivered By : Time	Customer's Signature Date Y M D											



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl.: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl.: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00096399

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

DART AEROSPACE LTD

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction

F-M

Delivery Route

5

Customer N°
CLI0001056
Date
2018/06/20
Delivery date
2018/07/10
Your order N°
040267
Processed by
Eric Kaehlert
Salesman
OUELLETTE VALLEYFIELD
Carrier
Net 30 Days
Credit Terme

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 1 PC 3-1/2" X 6' ** CERTIFICATE ** LINE: 4 ACI7566-FU-2018-06-28 Heat 297080 AT	35.73	1.75	PI2							

Total Weight (Lbs) : 35.73
NIR : R-109516-6

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By : 	Verified By : 	Delivered By : Time	Date Y M D
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Customer's Signature



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040267

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO040267

PO Date: 6/20/18

Due Date: 6/28/18

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quote sou0113485

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M303R1.000		303 Round Bar 1.00 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	6/28/18	12 ft	0 ft	12 ft	\$8.7025/ft	\$104.43
2		M304R3.750		304/316 Round Bar Ø3.750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE	Firmed	7/16/18	3 ft	0 ft	3 ft	\$265.00/ft	\$795.00
3		MT-A513-T- 0.8750W0.120		A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120" Wall	Firmed	6/28/18	100 ft	0 ft	100 ft	\$2.3595/ft	\$235.95
4		MT-4140-S-0.500X3.500		AISI 4140 Steel Sheet/Plate : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC	Firmed	6/28/18	6 ft	0 ft	6 ft	\$18.94333/ft	\$113.66

Items											
Line Item	Job	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M304B0.500X012.000		304 Bar .500 X 12.00 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	6/28/18	6 ft	0 ft	6 ft	\$86.95/ft	\$521.70
6		M6061T6S1.750X10.000		6061T6 SHEET 1.750 X 10.000 : MATERIAL: 6061-T6/T62/T651 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$22.158333/ft	\$531.80
Line Item Note PLEASE CUT BAR IN HALF 6 FT LENGTH											
7		M4140H-R0.375		4140 Round Bar .375 : AISI 4140H ROUND BAR PER AISI4140OR ASTM A304-02/-A-434-BC/-A193-03-GRADE B7/-A29-03/-A322-91 OR UNS#-G41400 MINIMUM ULTIMATE TENSILE STRENGTH=100 KSI MINIMUM YIELD TENSILE STRENGTH=66KSI receive ft	Firmed	6/28/18	24 ft	0 ft	24 ft	\$1.92125/ft	\$46.11

Grand Total: \$2,348.65

Order Notes

Procurement Quality Clauses
 A005 right of entry
 A012 chemical and physical test report
 A016 personnel qualification
 A017 raw material identification (as applicable)
 A026 certification of material conformance
 A041 quality management system
 A042 dart notification by supplier
 A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/20/18 1:07 PM dart.lavoie.chantal

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0113485

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/06/12

Revision N°

0

Prices valid until

2018/06/19

Your Order N°**Processed by**

Denis Quenneville

Salesman

ERIC

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND SS 3/4 17-4 PH H1150 NS RSS-34174 9268 1 X 6' 2-3 DAYS	9.01	6.00	PI_\$CLB	6.00	PI	35.30			211.78
ROUND SS 3-1/2" DIA RANDOM H1150 N 2 X 12' R/L 2-3 DAYS 35.296666 ** PRICE VALID FOR 24 FT MIN **	0.00	24.00	PI	24.00	UN	250.00			6 000.00
ROUND SS 4 17-4 PH H1150 RANDOM RSS-4174-V 8998 1 X 6' 2-3 DAYS	256.38	6.00	PI_\$CLB	6.00	UN_\$UN	352.52			2 115.14
ROUND SS 3/4 17-4 PH SOL ANN RANDOM NS RSS-334174-V 8850 1 X 4' 5-7 DAYS (OFFER SOL ANN CONDITION)	150.20	4.00	PI_\$CLB	4.00	UN_\$UN	260.97			1 043.89
ROUND 5" DIA RANDOM SS303 N 1 X 3' AMS 5640 2-3 WEEKS	0.00	1.00	UN	1.00	UN	1 455.00			1 455.00
ROUND SS 1 303 (R) RSS-1303 8519 1 X 12' R/L STOCK	32.04	12.00	PI_\$CLB	12.00	UN_\$UN	8.70			104.43
ROUND 3-3/4" DIA SS304 RANDOM N 1 X 3' 2-3 WEEKS	0.00	1.00	UN	1.00	UN	795.00			795.00
TUBE MEC 0.875 OD X .120 (R) TME-0875120 6787 5 X 20' R/L 2-3 DAYS	96.80	100.00	PI_\$CPI	100.00	PI	2.36			235.95
ROUND 2" DIA 4130 NORMALIZED RANDOM N 1 X 3' AMS 6348 1 WEEK	0.00	1.00	UN	1.00	UN	474.95			474.95

Date :

Next Page...

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Quotation

SOU0113485

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/06/12

Revision N°

0

Prices valid until

2018/06/19

Your Order N°**Processed by**

Denis Quenneville

Salesman

ERIC

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
O-1 FLAT GROUND STOCK 1/4" X 3" X 36" N 1 X 3' 4-6 DAYS	0.00	1.00	UN	1.00	UN	95.00			95.00
PLATE 4140 HEAT TREAT 1/2 NS P4140-12H 8509 1 X 3-1/2" X 72" 4-6 DAYS	35.73	1.75	PI2	1.75	UN_\$UN	64.95			113.66
PLATE SS 1/2 SS304 HRAP RANDOM PSS-12 4758 1 X 12" X 72" 3-4 DAYS	129.98	6.00	PI2	6.00	PI2	86.95			521.70
PLATE ALU. 2-1/4" 6061-T6 RANDOM N 1 X 4" X 144" 2-3 DAYS	0.00	4.00	PI2	4.00	UN	139.50			558.00
ALU PLATE 2 1/2 6061-T651 RANDOM PAL-2126061-V 7461 1 X 4-1/2" X 72" 2-3 DAYS	80.55	2.25	PI2	2.25	PI2	182.95			411.64
ALU PLATE 2 1/2 6061-T651 RANDOM PAL-2126061-V 7461 1 X 1-1/4" X 144" 2-3 DAYS	44.75	1.25	PI2_\$CLB	1.25	PI2	147.84			184.80
ALU PLATE 3 6061-T651 RANDOM PAL-36061-V 7482 1 X 5" X 72" 2-3 DAYS	107.13	2.50	PI2	2.50	PI2	225.95			564.88
ALU PLATE 1 3/4 6061-T651 RANDOM PAL-1346061-V 7458 2 X 10" X 144" 2-3 DAYS ** PRICE VALID FOR 2 PIECES **	50.14	2.00	PI2	2.00	PI2	132.95			265.90
ALU PLATE 1 7075-T651 NS PAL-17075 9889 1 X 8" X 144" 2-3 WEEKS	116.32	8.00	PI2	8.00	UN_\$UN	130.95			1 047.60

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0113485

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°

CLI0001056

Date

2018/06/12

Revision N°

0

Prices valid until

2018/06/19

Your Order N°**Processed by**

Denis Quenneville

Salesman

ERIC

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

3

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT 1-1/4" X 2" SS 17-4 RANDOM N 2 X 12' R/L 7-10 DAYS ** PRICE VALID FOR TOTAL TOTAL QUANTITY **	0.00	24.00	PI	24.00	UN	79.95			1 918.80
ROUND 4140 ANNEALED 3/8 (R) R4140-38A 4951 2 X 12' R/L 4-5 DAYS	9.02	24.00	PI_\$CLB	24.00	PI	1.92			46.11
FUEL CHARGE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs)

1 118.05

Important

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices.

This offer is subject to credit approval.

Approuved and Accepted by :

Date :

Sub-total

18 168.18

TVH-13 · · 2361.86

Total (\$CAD)

20 530.04

96399
Dart

17566N

Chemical certification Certification chimique
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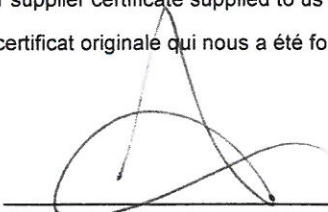
Order Num / No. Commande AC17566	Vendor / Fournisseur 46	Country of origin / Pay d'origine SLOVENIA	Date 09/10/16	Heat / coulée 297080	Material ID # / No. matériel
Grade / Nuance 4140 PLT	Conditions HEAT TREATED Q&T E + VD				
Shape / Forme FLT	Size / Dimension 0.500	Specifications ASTM A829/A829M			

Chemical composition / Analyse chimique				
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)	
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190	
Actuel % 0.430	0.224	0.783	0.007	
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)	
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500	
Actuel % 0.001	0.960	0.130	0.160	
Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)	
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0090 / 0.0190	0.0000 / 0.0000	
Actuel % 0.244	0.039	0.015	0.000	
Cobalt (Co)	Titanium (Ti)			
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % 0.000	0.000	0.000	0.000	0.000
Mechanical properties / Propriétés Mécaniques				
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC
0.000 PSI	0.000 PSI	0.00	0.00	284 BHN

Note:

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.


 Prepared by: / Préparé par:

8 7 6 5 4 3 2 1

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A829 AMS 6395

PART NUMBER: MT-4140-S-[T.TTT] x [W.WWW]
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

DART
AEROSPACE

Headquarters, Chicago, Illinois

TITLE		AISI 4140 / 4142 STEEL SHEET OR PLATE	
PART NO.	MT-4140-S	REV.	A
NO. NO.	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS APPLY AFTER FINISHING.		
DESIGNED BY:	VM 2/13/2018	TOLERANCES:	FRACTIONS x 16
DRAWN BY:	VM 02/13/2018	XXX ± .005	SURFACE
CHECKED BY:	VM 02/13/2018	X ± .1	ROUGHNESS
MFG REVIEW BY:	DD 02/13/2018	SCALE: NTS	SHEET 1 OF 1
APPROVED BY:	ML 02/14/2018	AEROSPACE LTD	
THIS DOCUMENT IS UNCLASSIFIED AND IS AVAILABLE TO THE PUBLIC. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

ngda

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-5-0.500x3.500
 DATE: 18/07/11

PO / BATCH NO.: P0040267/5090996

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500"
 THICKNESS RECEIVED: 0.500"
 SHEET SIZE ORDERED: 0.500x3.500
 SHEET SIZE RECEIVED: 0.500x3.500

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	ASTM A829
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	HT: 297080
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <u>PD</u> DATE: <u>18/07/11</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

96401

**VALBRUNA**
 SLATER STAINLESS, INC.
 2400 TAYLOR STREET WEST - PO BOX 630
 FORT WAYNE IN 46802 USA
 PHONE 260.434.2800 - FAX 260.434.2801

Dart

Product Certification ReportReport Number: **5472742**

17562N

Certified on Mar 19, 2018 Page 1 of 2

Order I.D. OA18001213 0060		Order Date 2/27/18	Commodity Code 304D3.75RT	
Dim 1 3.7500	Dim 2 .0000	Heat I.D. 274065	Customer I.D. 0008000061	Customer Purchase Order 57897
Product Shape Round		Product Surface HR & Rough Turned		Customer Grade 304/304L
Length (inches) .000 Min. .000 Max.		Bill of Lading # PL18001032/2		Weight 002676 LBS

VALBRUNA STAINLESS, INC.
370 VILLAGE DRIVE
Ship To CAROL STREAM, IL 60188

VALBRUNA STAINLESS INC.
Sold To 2400 TAYLOR STREET WEST
FORT WAYNE, IN, IN 46802

Lifts: 0037

ASTM A484-16	Type 304/304L	EN 10204 3.1
MIL-S-862B	*ASTMA 262-15	ASTMA 370-17
ASTM A 182-18 Chem only	ASME SA182 13 (Chem)	ASTM A479-18
ASMESA 276 13 ED	*AMS 5647K	SAE-AMS QQ-S-763D
ASTM A276-17	ASTMA 320-17b Chem Only	ASTM A314-15
AMS 5639J (CHEM)	ASTM A473-01 (Chem)	ASME SA479-13 ED

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.014	.81	.029	.027	.62	18.16	8.05	.46	.40	.12	.090

BRINELL Type A device E10-15a
 HBW
 169
ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL (4d)	%RA
90100	41100	56.2	74.4

GRAIN SIZE ASTM E112-13

GRAIN SIZE	Etchant	Magnification X
7	Oxalic	100

ASTM A262-15 PR E(A Utilized)

OXALIC	Structure	Etchant	Magnification X	QUENCH	SENS(F)	SENS(HR)
OK	Step	Oxalic	500	Air	1200	1.50

Free of mercury and low melting alloy contamination.

Solution annealed at 1900F min. and water quenched (heating time & temp appropriate for optimum quality).

No welding or weld repair done.

Electric Furnace melted; AOD refined.

*Certification revised at Valbruna by T. Landwehr (5/1/18)

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination. No weld repair.

Material melted in Italy, manufactured in the United States.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

email: TLandwehr@valbruna.us

Tad Landwehr

**VALBRUNA**SLATER STAINLESS, INC.
2400 TAYLOR STREET WEST - PO BOX 630
FORT WAYNE IN 46802 USA
PHONE 260.434.2800 - FAX 260.434.2801**Product Certification Report**Report Number: **5472742**

Certified on Mar 19, 2018 Page 2 of 2

Order I.D. 0A18001213 0060		Order Date 2/27/18	Commodity Code 304D3.75RT	
Dim 1 3.7500	Dim 2 .0000	Heat I.D. 274065	Customer I.D. 0008000061	Customer Purchase Order 57897
Product Shape Round		Product Surface HR & Rough Turned		Customer Grade 304/304L
Length (Inches) .000 Min.		Bill of Lading # .000 Max. PL18001032/2		Weight 002676 LBS

VALBRUNA STAINLESS, INC.
370 VILLAGE DRIVE
CAROL STREAM, IL 60188

Ship To

VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
FORT WAYNE, IN, IN 46802

Sold To

Quality system is compliant with ISO 9001:2015. Produced in accordance with EN 10204 3.1.

Date 6-27-18
 Customer Acier
 These Tests Are For Material Shipped On
 Your Order AC00017562
 From Copper And Brass Sales, Inc.
 INV/NO 2406058697
 WGT 113 PCS 1
12 Labcy QC

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services Tad E Landwehr
 email: TLandwehr@valbruna.us Tad Landwehr

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION: ASTM A276
PART NUMBER: M304R0.750 DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

RELEASED
11/28/25

B	REFORMAT DWG. ADD SPECS (ZN D6-1).	CP	09.07.15
A	NEW ISSUE	AUS	08.03.03
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	97		
CHECKED	97		
MFG. APPR.	M304R		
APPROVED	MD		
DE APPR.	MD		
DATE	09.07.15		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. REV. B			
M304R SHEET 1 OF 1			
TITLE SCALE			
304/316 ROUND BAR NTS			
COPYRIGHT © 2008 BY DART AEROSPACE LTD			
THIS DRAWING IS PROPRIETARY AND UNCLASSIFIED. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M 304 R 3.750
 DATE: 18/07/11

PO / BATCH NO.: PD 040267 / 5090995

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.750"
 THICKNESS RECEIVED: 3.750"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM A276
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT: 274065
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u>	SIGNED OFF BY: _____
DATE: <u>18/07/11</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in